

PROJECT DESCRIPTION

I. GENERAL:

THIS PROJECT INVOLVES THE INSTALLATION OF AN EXCLUSIVE/PERMISSIVE LEFT TURN SIGNAL PHASE FOR NORTHBOUND MD 45 (YORK ROAD) AT RIDGEBROOK ROAD IN BALTIMORE COUNTY. MD 45 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

II. INTERSECTION OPERATION:

THE INTERSECTION SHALL OPERATE IN A NEMA FOUR-PHASE, FULLY ACTUATED MODE, WITH THE MD 45 APPROACHES RUNNING CONCURRENTLY AND THE EASTBOUND RIDGEBROOK ROAD APPROACH OPERATING ALONE. AN EXCLUSIVE / PERMISSIVE LEFT-TURN PHASE IS PROVIDED FOR NORTHBOUND MD 45 (YORK ROAD).

THE EXISTING NEMA EIGHT-PHASE CONTROLLER HOUSED IN A SIZE '6' BASE MOUNTED CABINET SHALL BE MODIFIED FOR ADDITIONAL PHASING.

PROJECT CONTACTS

CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MR. RANDALL SCOTT
ASSISTANT DISTRICT ENGINEER - TRAFFIC
410-321-2781

MR. DAVID CREIGHTON
ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
410-321-2823

MR. STEVE MARCISZEWSKI
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
410-321-2761

MR. MICHAEL PASQUARIELLO
ASSISTANT DISTRICT ENGINEER - UTILITIES
410-321-2843

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS DIVISION
410-787-7630

MR. EDWARD RODENHIZER
TEAM LEADER - SIGNAL OPERATIONS
410-787-7652

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY SHA

ITEM NO.	QUANTITY	DESCRIPTION
9000	1 EA	VIDEO DETECTION INTERFACE

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

CAT. CODE	ITEM NO.	QUANTITY	DESCRIPTION
100000	1001	1 EA	MAINTENANCE OF TRAFFIC
585424	5004	60 LF	24" WHITE PAVEMENT MARKING FOR STOP LINE
585462	5005	60 LF	REMOVE EXISTING PAVEMENT MARKINGS
800000	8002	4 EA	12" RED OR GREEN LED SIGNAL HEAD SECTION.
800000	8003	3 EA	12" YELLOW LED SIGNAL HEAD SECTION .
800000	8011	3 EA	8" RED, GREEN OR YELLOW LED SIGNAL HEAD SECTION.
800000	8019	2 EA	200' VIDEO DETECTION CAMERA LEAD-IN CABLE TO CONTROLLER
800000	8028	1 EA	REMOVE AND DISPOSE OF EXISTING EQUIPMENT
816001	8065	2 EA	VIDEO DETECTION CAMERA
861108	8079	140 LF	FURNISH AND INSTALL 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

C. EQUIPMENT TO BE REMOVED

ALL EQUIPMENT TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR

NOTE:

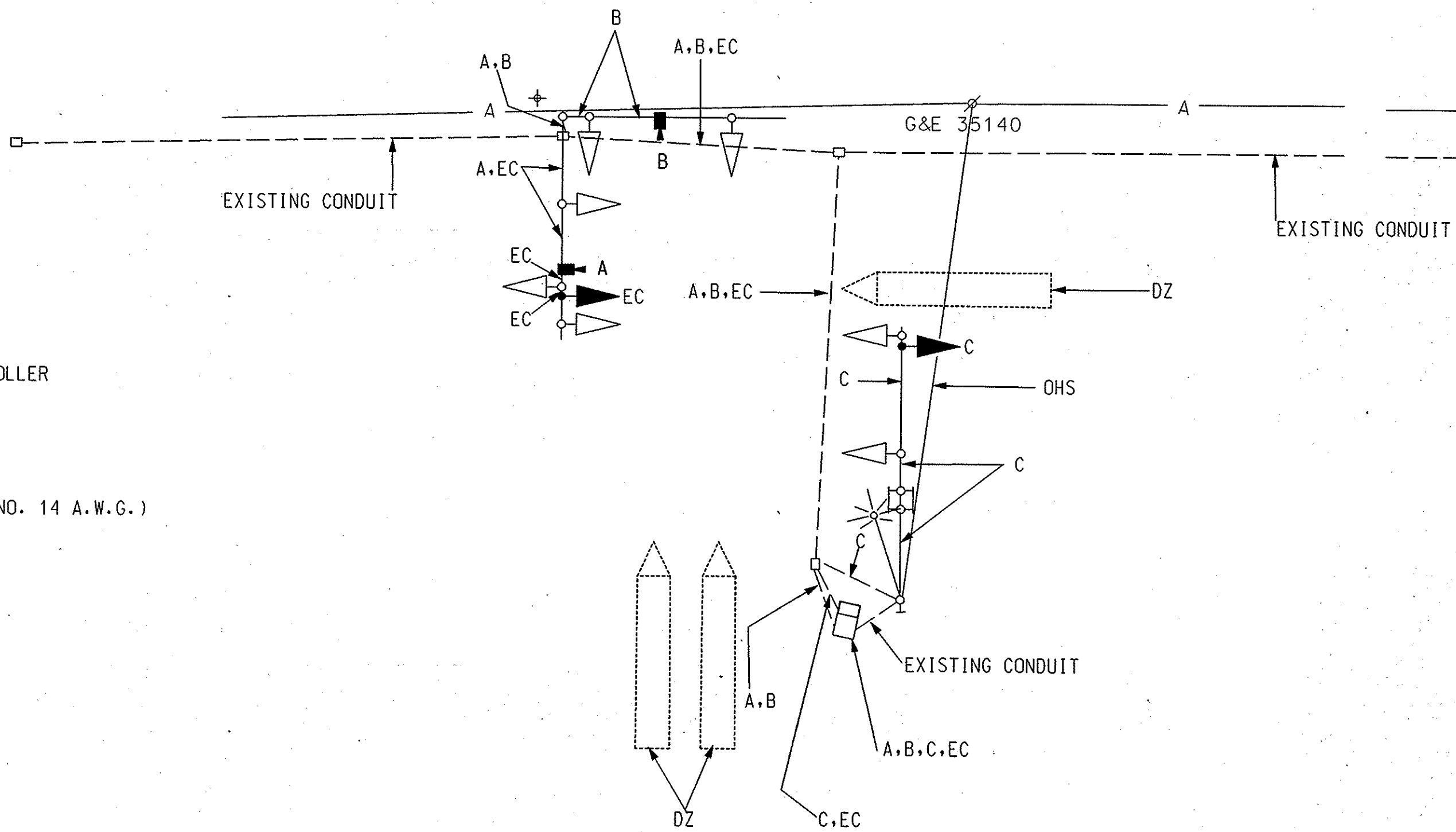
THE CONTRACTOR SHALL CONTACT MR. EDWARD RODENHIZER, CHIEF SIGNAL OPERATIONS TEAM, OOTS AT 410-787-7652, SEVENTY-TWO (72) HOURS PRIOR TO THE INTERNAL WIRING OF THE CONTROLLER CABINET.

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	
	Y	Y									
PHASE 2 & 5	DARK	DARK			G	R	R	R	R	R	
2 & 5 CHANGE	DARK	DARK			G	R	R	R	R	R	
PHASE 2 & 6	DARK	DARK	G	G	G	G	G	G	R	R	
2 & 6 CHANGE	FL/Y	FL/Y	Y	Y	Y	Y	Y	Y	R	R	
PHASE 4			R	R	R	R	R	R	G	G	
4 CHANGE	FL/Y	FL/Y	R	R	R	R	R	R	Y	Y	
FLASHING OPERATION	DARK	DARK	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	

NOTE: THE SIGNAL WILL BE SET TO FLASH FROM 10:00 PM TO 6:00 AM.

WIRING DIAGRAM



WIRING KEY

- A.B - VIDEO CAMERA WITH 200' LEAD-IN CABLE TO THE CONTROLLER
- C - 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- DZ - CAMERA DETECTOR ZONE
- OHS - OVERHEAD SERVICE
- EC - EXISTING 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

TOD No.: AT782-49
SHA No.: BA563A56/B56
MD 45 @ Ridgebrook Road

CENTURY
ENGINEERING
CONSULTING ENGINEERS - PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MD 21031
Phone: (410) 823-8070 Fax: (410) 823-2184

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION SHEET
MD 45 (YORK ROAD) AND
RIDGEBROOK ROAD

SCALE 1" = 20' DATE 08-25-06 CONTRACT NO. AT 7825185

DESIGNED BY H.O. COUNTY BALTIMORE
DRAWN BY H.O. LOGMILE 03004511.60
CHECKED BY EMM T.I.M.S. NO. H 415
F.A.P. NO. TOD NO.

TS NO. 4275-B SHEET NO. 2 OF 2